

## HW\_9

1. What is row context? Give an example in a calculated column.

`LineTotal = Sales[Quantity] * Sales[UnitPrice]`

2. Write a measure that finds total sales

The answer is in the PowerBi file

3. Use RELATED to fetch the Name from the Customers table into the Sales table.

The answer is in the PowerBi file

4. What does `CALCULATE(SUM(Sales[Quantity]), Sales[Category] = "Electronics")` return?

The answer is in the PowerBi file

5. Explain the difference between VAR and RETURN in DAX.

Var defines a temporary value

Return tells DAX what output to return

6. Create a calculated column in Sales called TotalPrice using row context (Quantity \* UnitPrice).

The answer is in the PowerBi file

7. Write a measure Electronics Sales using CALCULATE to sum sales only for the "Electronics" category.

The answer is in the PowerBi file

8. Use ALL(Sales[Category]) in a measure to show total sales ignoring category filters.

The answer is in the PowerBi file

9. Fix this error: A calculated column in Sales uses RELATED(Customers[Region]) but returns blanks.

There might be an issue in the Model View relationship between Sales and Customer

10. Why does CALCULATE override existing filters?

Because it replaces or modifies the current filter context

11. Write a measure that returns average unitprice of products

The answer is in the PowerBi file

12. Use VAR to store a temporary table of high-quantity sales (Quantity > 2), then count rows

The answer is in the PowerBi file

13. Write a measure % of Category Sales that shows each sale's contribution to its category total.

% of Category Sales =

DIVIDE(

Sales[TotalPrice],

CALCULATE(SUM(Sales[TotalPrice]), ALLEXCEPT(Sales, Sales[Category]))

)

14. Simulate a "remove filters" button using ALL in a measure.

15. Troubleshoot: A CALCULATE measure ignores a slicer. What's the likely cause?